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- Dortch, Q., Clayton, J.R., Jr., Thoreson, S.S., Bressler, S.L., Ahmed, S.I.: Response of Marine Phytoplankton to Nitrogen Deficiency: Decreased Nitrate Uptake vs Enhanced Ammonium Uptake **70**, 13 (1982)
- Dreyer, H.P., see Janssen, H.H. **62**, 313 (1981)
- Dustan, P.: Depth-Dependent Photoadaptation by Zooxanthellae of the Reef Coral *Montastrea annularis* **68**, 253 (1982)
- Dutton, P., see Hill, B.J., et al. **69**, 117 (1982)

## E

- Edwards, D.C., see Huebner, J.D. **61**, 221 (1981)
- Edwards, T.W., see Horn, M.H., et al. **67**, 237 (1982)
- Edwards, T.W., Horn, M.H.: Assimilation Efficiency of a Temperate-Zone Intertidal Fish (*Cebidichthys violaceus*) Fed Diets of Macroalgae **67**, 247 (1982)
- Eernisse, D.J., see Pearse, J.S. **67**, 121 (1982)
- Ellis, R., see Lee, M.J., et al. **68**, 193 (1982)
- England, W.R., see Baldwin, J., et al. **62**, 235 (1981)
- Eppley, R.W., see Smith, R.C., et al. **66**, 281 (1982)
- Es, F.B. van: Community Metabolism of Intertidal Flats in the Ems-Dollard Estuary **66**, 95 (1982)
- Evans, S.V., see Widdows, J., et al. **67**, 15 (1982)
- Ewart, J.W., see Carriker, M.R., et al. **69**, 235 (1982)

## F

- Falconer, C.R., see Davies, I.M., et al. **64**, 291 (1981)
- Falkowski, P.G., Wirick, C.D.: A Simulation Model of the Effects of Vertical Mixing on Primary Productivity **65**, 69 (1981)
- Falk-Petersen, I.-B., Sargent, J.R.: Reproduction of Asteroids from Balsfjorden, Northern Norway: Analyses of Lipids in the Gonads of *Ctenodiscus crispatus*, *Asterias lincki* and *Pteraster militaris* **69**, 291 (1982)
- Falk-Petersen, S., see Henderson, R.J., et al. **63**, 235 (1981)
- Falk-Petersen, S., see Henderson, R.J., et al. **70**, 7 (1982)
- Falk-Petersen, S., see Sargent, J.R. **62**, 131 (1981)
- Falk-Petersen, S., Sargent, J.R., Hopkins, C.C.E., Vaja, B.: Ecological Investigations on the Zooplankton Community of Balsfjorden, Northern Norway: Lipids in the Euphausiids *Thysanoessa raschi* and *T. inermis* During Spring **68**, 97 (1982)
- Farrington, J.W., Davis, A.C., Frew, N.M., Rabin, K.S.: No.2 Fuel Oil Compounds in *Mytilus edulis*. Retention and Release After an Oil Spill **66**, 15 (1982)
- Fay, P., see Bryceson, I. **61**, 159 (1981)
- Feder, H.M., see Jewett, S.C. **66**, 243 (1982)
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- Findlay, S.E.G.: Effect of Detrital Nutritional Quality on Population Dynamics of a Marine Nematode (*Diploelaimella chitwoodi*) **68**, 223 (1982)
- Fishler, R., see Ben-Amotz, A. **67**, 289 (1982)
- Fitt, W.K., Pardy, R.L.: Effects of Starvation, and Light and Dark on the Energy Metabolism of Symbiotic and Aplosymbiotic Sea Anemones, *Anthopleura elegantissima* **61**, 199 (1981)
- Flegal, A.R., Stephenson, M., Martin, M., Martin, J.H.: Elevated Concentrations of Mercury in Mussels (*Mytilus californianus*) Associated with Pinniped Colonies **65**, 45 (1981)
- Ford, S.E., see Dillaman, R.M. **66**, 133 (1982)
- Fowler, B.A., see Carmichael, N.G. **65**, 35 (1981)
- Fowler, S.W., see Miramand, P., et al. **67**, 127 (1982)



- Frew, N.M., see Farrington, J.W., et al. **66**, 15 (1982)
- Fuhrman, J.A., Azam, F.: Thymidine Incorporation as a Measure of Heterotrophic Bacterioplankton Production in Marine Surface Waters: Evaluation and Field Results **66**, 109 (1982)
- Fuhrman, J.A., see Hodson, R.E., et al. **61**, 89 (1981)
- Fujio, Y., see Smith, P.J. **69**, 7 (1982)
- Fukazawa, N., see Takahashi, M. **70**, 267 (1982)
- Furnas, M.J.: An Evaluation of Two Diffusion Culture Techniques for Estimating Phytoplankton Growth Rates *In Situ* **70**, 63 (1982)
- Furnas, M.J.: Growth Rates of Summer Nanoplankton (< 10  $\mu$ m) Populations in Lower Narragansett Bay, Rhode Island, USA **70**, 105 (1982)
- ## G
- Gäde, G., Meinardus, G.: Anaerobic Metabolism of the Common Cockle *Cardium edule*. V. Changes in the Level of Metabolites in the Foot During Aerobic Recovery After Anoxia **65**, 113 (1981)
- Gage, J.D., see Pain, S.L., et al. **70**, 41 (1982)
- Gage, J.D., Tyler, P.A.: Non-Viable Seasonal Settlement of Larvae of the Upper Bathyal Brittle Star *Ophiocten gracilis* in the Rockall Trough Abyssal **64**, 153 (1981)
- Gage, J.D., Tyler, P.A.: Re-appraisal of Age Composition, Growth and Survivorship of the Deep-Sea Brittle Star *Ophiura ljungmani* from Size Structure in a Sample Time Series from the Rockall Trough **64**, 163 (1981)
- Gagné, J.A., Mann, K.H., Chapman, A.R.O.: Seasonal Patterns of Growth and Storage in *Laminaria longicruris* in Relation to Differing Patterns of Availability of Nitrogen in the Water **69**, 91 (1982)
- Gamble, J.C., see Lampitt, R.S. **66**, 185 (1982)
- Garber, M.R., see Propp, M.V., et al. **67**, 47 (1982)
- Garwood, P.R., see Olive, P.J.W., et al. **63**, 189 (1981)
- Gaudy, R., Sloane, L.: Effect of Salinity on Oxygen Consumption in Postlarvae of the Penaeid Shrimps *Penaeus monodon* and *P. stylirostris* Without and With Acclimation **65**, 297 (1981)
- Gerard, V.A.: Growth and Utilization of Internal Nitrogen Reserves by the Giant Kelp *Macrocystis pyrifera* in a Low-Nitrogen Environment **66**, 27 (1982)
- Gerard, V.A.: *In situ* Water Motion and Nutrient Uptake by the Giant Kelp *Macrocystis pyrifera* **69**, 51 (1982)
- Gieskes, W.W.C., Kraay, G.W.: Effect of Enclosure in Large Plastic Bags on Diurnal Change in Oxygen Concentration in Tropical Ocean Water **70**, 99 (1982)
- Gillmor, R.B.: Assessment of Intertidal Growth and Capacity Adaptations in Suspension-Feeding Bivalves **68**, 277 (1982)
- Glibert, P.M.: Regional Studies of Daily, Seasonal and Size Fraction Variability in Ammonium Remineralization **70**, 209 (1982)
- Glibert, P.M., Goldman, J.C., Carpenter, E.J.: Seasonal Variations in the Utilization of Ammonium and Nitrate by Phytoplankton in Vineyard Sound, Massachusetts, USA **70**, 237 (1982)
- Gocke, K., Dawson, R., Liebezeit, G.: Availability of Dissolved Free Glucose to Heterotrophic Microorganisms **62**, 209 (1981)
- Godin, J.-G.J.: Circadian Rhythm of Swimming Activity in Juvenile Pink Salmon (*Oncorhynchus gorbuscha*) **64**, 341 (1981)
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- Goshima, S., see Murai, M., et al. **66**, 191 (1982)
- Goulder, R., see Bent, E.J. **62**, 35 (1981)
- Graf, G., Bengtsson, W., Diesner, U., Schulz, R., Theede, H.: Benthic Response to Sedimentation of a Spring Phytoplankton Bloom: Process and Budget **67**, 201 (1982)
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- Greenblatt, P.R.: Small-Scale Horizontal Distributions of Zooplankton Taxa **67**, 97 (1982)
- Griffiths, C.L., see Koop, K. **66**, 295 (1982)
- Grigg, R.W., see Dollar, S.J. **65**, 269 (1981)
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- Guénolé, A., see Morizur, Y., et al. **63**, 319 (1981)
- Guérin, J.-P., Kerambrun, P., Rivière, D.: Effets à court terme et à long terme d'un narcotique sur quelques activités enzymatiques chez le copépode harpacticoidé *Tisbe holothuriae*. [Short and Long-Term Effects of a Narcotic on Some Enzymatic Activities of the Harpacticoid Copepod *Tisbe holothuriae*] **68**, 217 (1982)
- Guerinot, M.L., Patriquin, D.G.: The Association of  $N_2$ -Fixing Bacteria with Sea Urchins **62**, 197 (1981)
- Guillard, R.R.L., see Brand, L.E., et al. **62**, 103 (1981)
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- Gunnarsson, L.Å.H., Rönnow, P.H.: Interrelationships Between Sulfate Reducing and Methane Producing Bacteria in Coastal Sediments with Intense Sulfide Production **69**, 121 (1982)
- Gunnill, F.C.: Macroalgae as Habitat Patch Islands for *Scutellidium lamellipes* (Copepoda: Harpacticoida) and *Amphithoe tea* (Amphipoda: Gammaridae) **69**, 103 (1982)
- Gunnill, F.C.: Effects of Plant Size and Distribution on the Numbers of Invertebrate Species and Individuals Inhabiting the Brown Alga *Pelvetia fastigiata* **69**, 263 (1982)
- Gust, G., Harrison, J.T.: Biological Pumps at the Sediment-Water Interface: Mechanistic Evaluation of the Alpheid Shrimp *Alpheus mackayi* and Its Irrigation Pattern **64**, 71 (1981)
- ## H
- Hagerman, L., see Baden, S. **63**, 129 (1981)
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- Hallegraeff, G.M.: Seasonal Study of Phytoplankton Pigments and Species at a Coastal Station off Sydney: Importance of Diatoms and the Nanoplankton **61**, 107 (1981)
- Hallock, P.: Algal Symbiosis: A Mathematical Analysis **62**, 249 (1981)
- Hamburger, K.: A Gradient Diver for Measurement of Respiration in Individual Organisms from the Micro- and Meiofauna **61**, 179 (1981)
- Hammer, R.M.: Day-Night Differences in the Emergence of Demersal Zooplankton from a Sand Substrate in a Kelp Forest **62**, 275 (1981)
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- Hara, S., see Amano, M., et al. **68**, 31 (1982)
- Harding, L.W., Jr., Meeson, B.W., Prézélin, B.B., Sweeney, B.M.: Diel Periodicity of Photosynthesis in Marine Phytoplankton **61**, 95 (1981)
- Harding, L.W., Jr., Prézélin, B.B., Sweeney, B.M., Cox, J.L.: Diel Oscillations of the Photosynthesis-Irradiance (P-I) Relationship in Natural Assemblages of Phytoplankton **67**, 167 (1982)
- Harding, L.W., Jr., Prézélin, B.B., Sweeney, B.M., Cox, J.L.: Primary Production as Influenced by Diel Periodicity of Phytoplankton Photosynthesis **67**, 179 (1982)
- Hårdstedt-Roméo, M.: Some Aspects of the Chemical Composition of Plankton from the North-Western Mediterranean Sea **70**, 229 (1982)
- Harlin, M.M., Thorne-Miller, B.: Nutrient Enrichment of Seagrass Beds in a Rhode Island Coastal Lagoon **65**, 221 (1981)
- Harmelin-Vivien, M.L., see Bouchon-Navaro, Y. **63**, 79 (1981)

- Harrison, F.L., Berger, R.: Effects of Copper on the Latency of Lysosomal Hexosaminidase in the Digestive Cells of *Mytilus edulis* **68**, 109 (1982)
- Harrison, J.T., see Gust, G. **64**, 71 (1981)
- Harrison, Paul G.: Control of Microbial Growth and of Amphipod Grazing by Water-Soluble Compounds from Leaves of *Zostera marina* **67**, 225 (1982)
- Harrison, Paul G., Chan, A.T.: Inhibition of the Growth of Micro-Algae and Bacteria by Extracts of Eelgrass (*Zostera marina*) Leaves **61**, 21 (1980)
- Harrison, P.J., see Bienfang, P.K., et al. **67**, 295 (1982)
- Hashimoto, Y., see Randall, J.E., et al. **62**, 179 (1981)
- Hassett, R.P., see Landry, M.R. **67**, 283 (1982)
- Hatfield, E.B., see Croker, R.A. **61**, 79 (1980)
- Hattori, A., see Iizumi, H., et al. **66**, 59 (1982)
- Hattori, A., see Saino, T. **70**, 251 (1982)
- Hayward, T.L., Venrick, E.L.: Relation Between Surface Chlorophyll, Integrated Chlorophyll and Integrated Primary Production **69**, 247 (1982)
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- Henderson, R.J., Falk-Petersen, S., Sargent, J.R.: The Composition and Biosynthesis of Lipids in *Thysanoessa raschi* from the Clyde Estuary, Scotland **70**, 7 (1982)
- Henderson, R.J., Sargent, J.R., Falk-Petersen, S.: Lipogenesis in the Arctic Euphausiid *Thysanoessa inermis* **63**, 235 (1981)
- Henriksen, K., Hansen, J.I., Blackburn, T.H.: Rates of Nitrification, Distribution of Nitrifying Bacteria, and Nitrate Fluxes in Different Types of Sediment from Danish Waters **61**, 299 (1981)
- Hernandorena, A., Kaushik, S.J.: Ammonia Excretion of *Artemia* sp. (Crustacea: Branchiopoda) Under Axenic Conditions **63**, 23 (1981)
- Herrnkind, W.F., see Lipcius, R.N. **68**, 241 (1982)
- Heyraud, M., see Cherry, R.D. **65**, 165 (1981)
- Higgins, H.W., see Tranter, D.J., et al. **61**, 317 (1981)
- Hildemann, W.H., see Johnston, I.S. **67**, 1 (1982)
- Hill, B.J., Williams, M.J., Dutton, P.: Distribution of Juvenile, Subadult and Adult *Scylla serrata* (Crustacea: Portunidae) on Tidal Flats in Australia **69**, 117 (1982)
- Himmelman, J.H., Lavergne, Y., Cardinal, A., Martel, G., Jalbert, P.: Brooding Behaviour of the Northern Sea Star *Lepasterias polaris* **68**, 235 (1982)
- Hines, A.H.: Allometric Constraints and Variables of Reproductive Effort in Brachyuran Crabs **69**, 309 (1982)
- Hochberg, F.G., Jr., see Young, R.E., et al. **69**, 299 (1982)
- Hockin, D.C.: Maintenance of a Diverse Harpacticoid Copepod Community in Microcosm Culture **65**, 209 (1981)
- Hodson, R.E., Azam, F., Carlucci, A.F., Fuhrman, J.A., Karl, D.M., Holm-Hansen, O.: Microbial Uptake of Dissolved Organic Matter in McMurdo Sound, Antarctica **61**, 89 (1981)
- Hodson, R.E., Maccubbin, A.E., Pomeroy, L.R.: Dissolved Adenosine Triphosphate Utilization by Free-Living and Attached Bacterioplankton **64**, 43 (1981)
- Hoetjes, P.C., see Westinga, E. **62**, 139 (1981)
- Hofmann, D.K., Kremer, B.P.: Carbon Metabolism and Strobilation in *Cassiopea andromeda* (Cnidaria: Scyphozoa): Significance of Endosymbiotic Dinoflagellates **65**, 25 (1981)
- Hofmann, E.E., Klinck, J.M., Paffenhöfer, G.-A.: Concentrations and Vertical Fluxes of Zooplankton Fecal Pellets on a Continental Shelf **61**, 327 (1981)
- Holm-Hansen, O., see Hodson, R.E., et al. **61**, 89 (1981)
- Hopkins, C.C.E., see Falk-Petersen, S., et al. **68**, 97 (1982)
- Hopkins, C.C.E., see Tande, K.S. **63**, 159 (1981)
- Hori, K., see Randall, J.E., et al. **62**, 179 (1981)
- Horn, M.H., see Edwards, T.W. **67**, 247 (1982)
- Horn, M.H., Murray, S.N., Edwards, T.W.: Dietary Selectivity in the Field and Food Preferences in the Laboratory for Two Herbivorous Fishes (*Cebidichthys violaceus* and *Xiphister mucosus*) from a Temperate Intertidal Zone **67**, 237 (1982)
- Horner, S.M.J., see Smith, D.F., et al. **61**, 207 (1981)
- Horrigan, S.G., see Cullen, J.J. **62**, 81 (1981)
- Hosie, G.W., see Ritz, D.A. **68**, 103 (1982)
- Howe, N.R., Quast, W.D., Cooper, L.M.: Lethal and Sublethal Effects of a Simulated Salt Brine Effluent on Adults and Subadults of the Shrimps *Penaeus setiferus* and *P. aztecus* **68**, 37 (1982)
- Howell, W.H., see Johns, D.M., et al. **63**, 301 (1981)
- Huberdeau, L., Brunel, P.: Efficacité et sélectivité faunistique comparée de quatre appareils de prélèvements endo-, épi- et suprabenthiques sur deux types de fonds. [Efficiency and Comparative Faunistic Selectivity of Four Endo-, Epi- and Suprabenthic Samplers on Two Bottom Types] **69**, 331 (1982)
- Huebner, J.D., Edwards, D.C.: Energy Budget of the Predatory Marine Gastropod *Polinices duplicatus* **61**, 221 (1981)
- Hunt, G.L., see Schneider, D. **67**, 337 (1982)
- Ichikawa, T.: Particulate Organic Carbon and Nitrogen in the Adjacent Seas of the Pacific Ocean **68**, 49 (1982)
- Iglesias, J.: Spatial and Temporal Changes in the Demersal Fish Community of the Ria de Arosa (NW Spain) **65**, 199 (1981)
- Iizumi, H., Hattori, A., McRoy, C.P.: Ammonium Regeneration and Assimilation in Eelgrass (*Zostera marina*) Beds **66**, 59 (1982)
- Immsand, S.: Comparison of the Food of *Triphoturus mexicanus* and *T. nigrescens*, Two Lanternfishes of the Pacific Ocean **63**, 87 (1981)
- Iturriaga, R., Zsolnay, A.: Transformation of Some Dissolved Organic Compounds by a Natural Heterotrophic Population **62**, 125 (1981)
- Jalbert, P., see Himmelman, J.H., et al. **68**, 235 (1982)
- Janson, K.: Genetic and Environmental Effects on the Growth Rate of *Littorina saxatilis* **69**, 73 (1982)
- Janssen, H.H., Dreyer, H.P.: A Simple and Cheap Apparatus for the Controlled Feeding of Suspension Feeders **62**, 313 (1981)
- Jenkins, M.C., see Boynton, W.R., et al. **65**, 185 (1981)
- Jensen, A., see Østgaard, K. **66**, 261 (1982)
- Jewett, S.C., Feder, H.M.: Food and Feeding Habits of the King Crab *Paralithodes camtschatica* Near Kodiak Island, Alaska **66**, 243 (1982)
- Johns, D.M., Howell, W.H., Klein-MacPhee, G.: Yolk Utilization and Growth to Yolk-Sac Absorption in Summer Flounder (*Paralichthys dentatus*) Larvae at Constant and Cyclic Temperatures **63**, 301 (1981)
- Johnson, K.M., see Burney, C.M., et al. **63**, 175 (1981)
- Johnson, K.M., see Burney, C.M., et al. **65**, 289 (1981)
- Johnson, K.M., see Burney, C.M., et al. **67**, 311 (1982)
- Johnson, K.M., Burney, C.M., Sieburth, J.McN.: Enigmatic Marine Ecosystem Metabolism Measured by Direct Diel  $\text{CO}_2$  and  $\text{O}_2$  Flux in Conjunction with DOC Release and Uptake **65**, 49 (1981)
- Johnson, M.S., see Black, R. **64**, 79 (1981)
- Johnson, M.S., Black, R.: Chaotic Genetic Patchiness in an Intertidal Limpet, *Siphonaria* sp. **70**, 157 (1982)
- Johnston, I.A., see Salamonski, J.H. **69**, 1 (1982)
- Johnston, I.S., Hildemann, W.H.: Cellular Organization in the Marine Demosponge *Callyspongia diffusa* **67**, 1 (1982)
- Jupin, H., see Neveux, J. **63**, 13 (1981)

- K**
- Kain (Jones), J.M.: Morphology and Growth of the Giant Kelp *Macrocystis pyrifera* in New Zealand and California **67**, 143 (1982)
- Kamatani, A.: Dissolution Rates of Silica from Diatoms Decomposing at Various Temperatures **68**, 91 (1982)
- Kamykowski, D.: Laboratory Experiments on the Diurnal Vertical Migration of Marine Dinoflagellates Through Temperature Gradients **62**, 57 (1981)
- Karanas, J.J., Worrest, R.C., Van Dyke, H.: Impact of UV-B Radiation on the Fecundity of the Copepod *Acartia clausii* **65**, 125 (1981)
- Karl, D.M., see Hodson, R.E., et al. **61**, 89 (1981)
- Karl, D.M., Winn, C.D., Wong, D.C.L.: RNA Synthesis as a Measure of Microbial Growth in Aquatic Environments. I. Evaluation, Verification and Optimization of Methods **64**, 1 (1981)
- Karl, D.M., Winn, C.D., Wong, D.C.L.: RNA Synthesis as a Measure of Microbial Growth in Aquatic Environments. II. Field Applications **64**, 13 (1981)
- Kaumeier, K.R., see Boynton, W.R., et al. **65**, 185 (1981)
- Kaushik, S.J., see Hernandez, A. **63**, 23 (1981)
- Kautsky, N.: Growth and Size Structure in a Baltic *Mytilus edulis* Population **68**, 117 (1982)
- Kautsky, N.: Quantitative Studies on Gonad Cycle, Fecundity, Reproductive Output and Recruitment in a Baltic *Mytilus edulis* Population **68**, 143 (1982)
- Kawakami de Rezende, E., see Wakabara, Y., et al. **68**, 67 (1982)
- Kaye, H., Ortiz, T.: Strain Specificity in a Tropical Marine Sponge **63**, 165 (1981)
- Kemp, W.M., see Boynton, W.R., et al. **65**, 185 (1981)
- Kerambrun, P., see Guérin, J.-P., et al. **68**, 217 (1982)
- King, R.J., Schramm, W.: Calcification in the Maerl Coralline Alga *Phymatolithon calcareum*: Effects of Salinity and Temperature **70**, 197 (1982)
- Kierboe, T., Møhlenberg, F., Nøhr, O.: Effect of Suspended Bottom Material on Growth and Energetics in *Mytilus edulis* **61**, 283 (1981)
- Klein-MacPhee, G., see Johns, D.M., et al. **63**, 301 (1981)
- Klinck, J.M., see Hofmann, E.E., et al. **61**, 327 (1981)
- Klump, D.W., Peterson, P.J.: Chemical Characteristics of Arsenic in a Marine Food Chain **62**, 297 (1981)
- Kneib, R.T.: Reanalysis of Conversion Efficiencies for Larval *Fundulus heteroclitus* **63**, 213 (1981)
- Köhler, K., Riisgård, H.U.: Formation of Metallothioneins in Relation to Accumulation of Cadmium in the Common Mussel *Mytilus edulis* **66**, 53 (1982)
- Komatsu, M.: Development of the Sea-Star *Ctenopleura fisheri* **66**, 199 (1982)
- Koop, K., Griffiths, C.L.: The Relative Significance of Bacteria, Meio- and Macrofauna on an Exposed Sandy Beach **66**, 295 (1982)
- Kraay, G.W., see Gieskes, W.W.C. **70**, 99 (1982)
- Krawiec, R.W.: Autecology and Clonal Variability of the Marine Centric Diatom *Thalassiosira rotula* (Bacillariophyceae) in Response to Light, Temperature and Salinity **69**, 79 (1982)
- Kremer, B.P., see Hofmann, D.K. **65**, 25 (1981)
- Krempin, D.W., McGrath, S.M., Beeler, SooHoo, J., Sullivan, C.W.: Orthophosphate Uptake by Phytoplankton and Bacterioplankton from the Los Angeles Harbor and Southern California Coastal Waters **64**, 23 (1981)
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- L**
- Lalli, C.M., see Lewis, J.B., et al. **70**, 173 (1982)
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- Lampitt, R.S., Gamble, J.C.: Diet and Respiration of the Small Planktonic Marine Copepod *Oithona nana* **66**, 185 (1982)
- Landry, M.R.: Switching Between Herbivory and Carnivory by the Planktonic Marine Copepod *Calanus pacificus* **65**, 77 (1981)
- Landry, M.R., Hassett, R.P.: Estimating the Grazing Impact of Marine Microzooplankton **67**, 283 (1982)
- Larsson, U., Hagström, Å.: Fractionated Phytoplankton Primary Production, Exudate Release and Bacterial Production in a Baltic Eutrophication Gradient **67**, 57 (1982)
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- Laws, E.A., Archie, J.W.: Appropriate Use of Regression Analysis in Marine Biology **65**, 13 (1981)
- Laws, E.A., see Redalje, D.G. **62**, 73 (1981)
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- Lee, M.J., Ellis, R., Lee, J.J.: A Comparative Study of Photoadaptation in Four Diatoms Isolated As Endosymbionts from Larger Foraminifera **68**, 193 (1982)
- Legendre, L., see Demers, S. **64**, 243 (1981)
- Lehman, P.W.: Comparison of Chlorophyll *a* and Carotenoid Pigments as Predictors of Phytoplankton Biomass **65**, 237 (1981)
- Leonard, D.R.P., Pentreath, R.J.: Further <sup>237</sup>Pu Experiments with the Placice *Pleuronectes platessa*: Subcellular Distribution of Plutonium in the Liver **63**, 67 (1981)
- Lewick, K., see Siebers, D., et al. **69**, 37 (1982)
- Lewis, J.B., Saleh, S., Reising, H.M., Lalli, C.M.: Growth, Production and Biomass of the Burrowing Protobranch Mollusc *Yoldia limatula* in the Bideford River, Prince Edward Island, Canada **70**, 173 (1982)
- Liebezeit, G., see Gocke, K., et al. **62**, 209 (1981)
- Lindley, J.A.: Population Dynamics and Production of Euphausiids. III. *Meganyctiphanes norvegica* and *Nyctiphanes couchi* in the North Atlantic Ocean and the North Sea **66**, 37 (1982)
- Lindley, J.A., see Williams, R. **69**, 321 (1982)
- Lipcius, R.N., Herrnkind, W.F.: Molt Cycle Alterations in Behavior, Feeding and Diel Rhythms of a Decapod Crustacean, the Spiny Lobster *Panulirus argus* **68**, 241 (1982)
- Livingston, R.J., see Mahoney, B.M.S. **69**, 207 (1982)
- Livingstone, D.R., see Widdows, J., et al. **67**, 15 (1982)
- Lobel, P.B., Wright, D.A.: Relationship Between Body Zinc Concentration and Allometric Growth Measurements in the Mussel *Mytilus edulis* **66**, 145 (1982)
- Lobel, P.B., Wright, D.A.: Total Body Zinc Concentration and Allometric Growth Ratios in *Mytilus edulis* Collected from Different Shore Levels **66**, 231 (1982)
- Lobel, P.S., Ogden, J.C.: Foraging by the Herbivorous Parrotfish *Sparisoma radians* **64**, 173 (1981)

- Loi, Iran-ngoc: Environmental Stresses and Intertidal Assemblages on Hard Substrates in the Port of Long Beach, California, USA **63**, 197 (1981)
- Lopez, G.W.: Short-Term Population Dynamics of *Tisbe cucumariae* (Copepoda: Harpacticoida) **68**, 333 (1982)
- López-Jamar, E.: Spatial Distribution of the Infaunal Benthic Communities of the Ria de Muros, North-West Spain **63**, 29 (1981)
- Lorenz, M.G., Aardema, B.W., Krumbein, W.E.: Interaction of Marine Sediment with DNA and DNA Availability to Nucleases **64**, 225 (1981)
- Lotrich, V.A., see Weisberg, S.B., et al. **61**, 243 (1981)
- Lotrich, V.A., see Weisberg, S.B. **66**, 307 (1982)
- Lowe, D.M., see Widdows, J., et al. **67**, 15 (1982)
- Lucas, J.S., see Ottesen, P.O. **69**, 223 (1982)
- Lüning, K., see Bolton, J.J. **66**, 89 (1982)
- M**
- Maccubbin, A.E., see Hodson, R.E., et al. **64**, 43 (1981)
- Madin, L.P.: Production, Composition and Sedimentation of Salp Fecal Pellets in Oceanic Waters **67**, 39 (1982)
- Madin, L.P., Cetta, C.M., McAlister, V.L.: Elemental and Biochemical Composition of Salps (Tunicata: Thaliacea) **63**, 217 (1981)
- Mahoney, B.M.S., Livingston, R.J.: Seasonal Fluctuations of Benthic Macrofauna in the Apalachicola Estuary, Florida, USA: The Role of Predation **69**, 207 (1982)
- Malone, T.C., Neale, P.J.: Parameters of Light-Dependent Photosynthesis for Phytoplankton Size Fractions in Temperate Estuarine and Coastal Environments **61**, 289 (1981)
- Mangold, K.M., see Young, R.E., et al. **69**, 299 (1982)
- Mann, K.H., see Bernstein, B.B., et al. **63**, 39 (1981)
- Mann, K.H., see Gagné, J.A., et al. **69**, 91 (1982)
- Mann, T., Martin, A.W., Thiersch, J.B.: Changes in the Spermatophoric Plasma During Spermatophore Development and During the Spermatophoric Reaction in the Giant Octopus of the North Pacific, *Octopus dofleini martini* **63**, 121 (1981)
- Markus, H., see Siebers, D., et al. **69**, 37 (1982)
- Martel, G., see Himmelman, J.H., et al. **68**, 235 (1982)
- Martin, A.W., see Mann, T., et al. **63**, 121 (1981)
- Martin, J.H., see Flegal, A.R., et al. **65**, 45 (1981)
- Martin, M., see Flegal, A.R., et al. **65**, 45 (1981)
- Marty, D.: Distribution of Different Anaerobic Bacteria in Arabian Sea Sediments **63**, 277 (1981)
- Massé, H., see Ansell, A.D., et al. **65**, 177 (1981)
- Mathieson, A.C., see Daly, M.A. **61**, 337 (1981)
- Maugeri, T., see Bruni, V., et al. **67**, 113 (1982)
- Maung Myint, U., Tyler, P.A.: Effects of Temperature, Nutritive and Metal Stressors on the Reproductive Biology of *Mytilus edulis* **67**, 209 (1982)
- Maurer, D., Leathem, W.: Polychaete Feeding Guilds from Georges Bank, USA **62**, 161 (1981)
- McAlice, B.J.: On the Post-glacial History of *Acartia tonsa* (Copepoda: Calanoida) in the Gulf of Maine and the Gulf of St. Lawrence **64**, 267 (1981)
- McAlister, V.L., see Madin, L.P., et al. **63**, 217 (1981)
- McCommas, S.A.: Biochemical Genetics of the Sea Anemone *Bunodosoma cavernata* and the Zoogeography of the Gulf of Mexico **68**, 169 (1982)
- McGee, K., see Davis, B.J., et al. **65**, 17 (1981)
- McGrath, S.M., see Krempin, D.W., et al. **64**, 23 (1981)
- McGrath, S.M., Sullivan, C.W.: Community Metabolism of Adenylates by Microheterotrophs from the Los Angeles Harbor and Southern California Coastal Waters **62**, 217 (1981)
- McIntosh, A.D., see Davies, I.M., et al. **64**, 291 (1981)
- McIntosh, R.P., see Dawes, C.J. **64**, 213 (1981)
- McKinley, K.R., see Seliger, H.H., et al. **61**, 119 (1981)
- McLay, C.L.: Population Biology of the Sponge Crab *Cryptodromia hilgendorfi* (Dromiacea) in Moreton Bay, Queensland, Australia **70**, 317 (1982)
- McRoy, C.P., see Izumi, H., et al. **66**, 59 (1982)
- Meeson, B.W., see Harding, L.W., Jr., et al. **61**, 95 (1981)
- Meinardus, G., see Gäde, G. **65**, 113 (1981)
- Meyer, D.L., see Smith, D.F., et al. **61**, 207 (1981)
- Miller, J.D., Whitney, N.J.: Fungi of the Bay of Fundy. III. Geofungi in the Marine Environment **65**, 61 (1981)
- Mills, C.E.: Diversity of Swimming Behaviors in Hydromedusae as Related to Feeding and Utilization of Space **64**, 185 (1981)
- Miramand, P., Fowler, S.W., Guary, J.C.: Comparative Study of Vanadium Biokinetics in Three Species of Echinoderms **67**, 127 (1982)
- Mitton, J.B., see Byers, B.A. **65**, 149 (1981)
- Mix, M.C., see Riley, R.T., et al. **61**, 267 (1981)
- Moal, J., see Samain, J.F., et al. **64**, 35 (1981)
- Mobley, M.C., see Ahsanullah, M., et al. **64**, 299 (1981)
- Mobley, M.C., see Ahsanullah, M., et al. **64**, 311 (1981)
- Mobley, M.C., see Negilski, D.S., et al. **64**, 305 (1981)
- Möhlenberg, F., see Kjørboe, et al. **61**, 283 (1981)
- Möhlenberg, F., see Poulsen, E., et al. **68**, 25 (1982)
- Moore, M.N., see Widdows, J., et al. **67**, 15 (1982)
- Moore, S.L., see Widdows, J., et al. **67**, 15 (1982)
- Morizur, Y., Conan, G., Guénolé, A., Omnès, M.H.: Fécondité de *Nephrops norvegicus* dans le golfe de Gascogne. [Fecundity of *Nephrops norvegicus* in the Bay of Biscay] **63**, 319 (1981)
- Mountford, K.: Aspects of the Ecology of a Small Estuarine Embayment **61**, 53 (1980)
- Moyano, H.I.: Magellanic Bryozoa: Some Ecological and Zoogeographical Aspects **67**, 81 (1982)
- Murai, M., Goshima, S., Nakasone, Y.: Some Behavioral Characteristics Related to Food Supply and Soil Texture of Burrowing Habitats Observed on *Uca vocans vocans* and *U. lactea perplexa* **66**, 191 (1982)
- Murat, J.C., see Woo, N.Y.S. **61**, 255 (1981)
- Murphy, L.S., see Brand, L.E., et al. **62**, 103 (1981)
- Murray, S.N., see Horn, M.H., et al. **67**, 237 (1982)
- N**
- Nafpaktitis, B.G., see Neighbors, M.A. **66**, 207 (1982)
- Nagabhushanam, R., Deshpande, U.D.: Reproductive Cycle of the Chiton *Chiton iatricos* and Environmental Control of Its Gonad Growth **67**, 9 (1982)
- Nakasone, Y., see Murai, M., et al. **66**, 191 (1982)
- Navarro, J.M., Winter, J.E.: Ingestion Rate, Assimilation Efficiency and Energy Balance in *Mytilus chilensis* in Relation to Body Size and Different Algal Concentrations **67**, 255 (1982)
- Neale, P.J., see Malone, T.C. **61**, 289 (1981)
- Negilski, D.S., see Ahsanullah, M., et al. **64**, 299 (1981)
- Negilski, D.S., see Ahsanullah, M., et al. **64**, 311 (1981)
- Negilski, D.S., Ahsanullah, M., Mobley, M.C.: Toxicity of Zinc, Cadmium and Copper to the Shrimp *Callinassa australiensis*. II. Effects of Paired and Triad Combinations of Metals **64**, 305 (1981)
- Neighbors, M.A., Nafpaktitis, B.G.: Lipid Compositions, Water Contents, Swim-bladder Morphologies and Buoyancies of Nineteen Species of Midwater Fishes (18 Myctophids and 1 Neoscopelid) **66**, 207 (1982)



- Neveux, J., Jupin, H.: Une approche vers l'estimation de la production potentielle du phytoplancton par analyse des cinétiques d'induction de fluorescence. [An Approach to Estimating the Potential Productivity of Phytoplankton by Analysis of the Kinetics of Fluorescence Induction] **63**, 13 (1981)
- Nøhr, O., see Kiørboe, et al. **61**, 283 (1981)
- North, W.J., see Wheeler, P.A. **64**, 59 (1981)
- Nultsch, W., Pfau, J., Rüffer, U.: Do Correlations Exist Between Chromatophore Arrangement and Photosynthetic Activity in Seaweeds? **62**, 111 (1981)

## O

- Ogden, J.C., see Lobel, P.S. **64**, 173 (1981)
- Okazaki, R. K., Panietz, M.H.: Depuration of Twelve Trace Metals in Tissues of the Oysters *Crassostrea gigas* and *C. virginica* **63**, 113 (1981)
- Olive, P.J.W., Garwood, P.R., Bentley, M.G., Wright, N.: Reproductive Success, Relative Abundance and Population Structure of Two Species of *Nephtys* in an Estuarine Beach **63**, 189 (1981)
- Olla, B.L., Samet, C., Studholme, A.L.: Correlates Between Number of Mates, Shelter Availability and Reproductive Behavior in the Tautog *Tautoga onitis* **62**, 239 (1981)
- Omnès, M.H. see Morizur, Y., et al. **63**, 319 (1981)
- Öquist, G., Hagström, Å., Alm, P., Samuelsson, G., Richardson, K.: Chlorophyll *a* Fluorescence, an Alternative Method for Estimating Primary Production **68**, 71 (1982)
- Ortega, S.: Environmental Stress, Competition and Dominance of *Crassostrea virginica* near Beaufort, North Carolina, USA **62**, 47 (1981)
- Osborne, C.G., see Boynton, W.R., et al. **65**, 185 (1981)
- Oshima, Y., see Randall, J.E., et al. **62**, 179 (1981)
- Østgaard, K., Jensen, A.: Diurnal and Circadian Rhythms in the Turbidity of Growing *Skeletonema costatum* Cultures **66**, 261 (1982)
- Ottesen, P.O., Lucas, J.S.: Divide or Broadcast: Interrelation of Asexual and Sexual Reproduction in a Population of the Fissiparous Hermaphroditic Seastar *Nepanthia belcheri* (Asteroidea: Asterinidae) **69**, 223 (1982)
- Otto, J., Pierce, S.K.: Water Balance Systems of *Rangia cuneata*: Ionic and Amino Acid Regulation in Changing Salinities **61**, 185 (1981)
- Otto, J., Pierce, S.K.: An Interaction of Extra- and Intracellular Osmoregulatory Mechanisms in the Bivalve Mollusc *Rangia cuneata* **61**, 193 (1981)
- P**
- Paasche, E., Kristiansen, S.: Ammonium Regeneration by Microzooplankton in the Oslofjord **69**, 55 (1982)
- Paerl, H.W., see Rosenberg, G. **61**, 151 (1981)
- Paffenhöfer, G.-A., see Hofmann, E.E., et al. **61**, 327 (1981)
- Paffenhöfer, G.-A., Strickler, J.R., Alcaraz, M.: Suspension-Feeding by Herbivorous Calanoid Copepods: A Cinematographic Study **67**, 193 (1982)
- Pain, S.L., Tyler, P.A., Gage, J.D.: The Reproductive Biology of *Hymenaster membranaceus* from the Rockall Trough, North-East Atlantic Ocean, with Notes on *H. gennaeus* **70**, 41 (1982)
- Palmer, A.R., Szymanska, J., Thomas, L.: Prolonged Withdrawal: A Possible Predator Evasion Behavior in *Balanus glandula* (Crustacea: Cirripedia) **67**, 51 (1982)
- Panietz, M.H., see Okazaki, R.K. **63**, 113 (1981)
- Pardy, L., see Fitt, W.K. **61**, 199 (1981)
- Parker, H.S.: Influence of Relative Water Motion on the Growth, Ammonium Uptake and Carbon and Nitrogen Composition of *Ulva lactuca* (Chlorophyta) **63**, 309 (1981)
- Parker, H.S.: Effects of Simulated Current on the Growth Rate and Nitrogen Metabolism of *Gracilaria tikvahiae* (Rhodophyta) **69**, 137 (1982)
- Parry, G.D.: Reproductive Effort in Four Species of Intertidal Limpets **67**, 267 (1982)
- Patriquin, D.G., see Guerinet, M.L. **62**, 197 (1981)
- Patriiti, G., see Arfi, R., et al. **61**, 133 (1981)
- Pearcy, W.G., see Willis, J.M. **70**, 87 (1982)
- Pearse, J.S., Eernisse, D.J.: Photoperiodic Regulation of Gametogenesis and Gonadal Growth in the Sea Star *Pisaster ochraceus* **67**, 121 (1982)
- Penttreath, R.J., see Leonard, D.R.P. **63**, 67 (1981)
- Perron, F.E.: Larval Biology of Six Species of the Genus *Conus* (Gastropoda: Toxoglossa) in Hawaii, USA **61**, 215 (1981)
- Perron, F.E.: Inter- and Intraspecific Patterns of Reproductive Effort in Four Species of Cone Shells (*Conus* spp.) **68**, 161 (1982)
- Perry, M.J., Talbot, M.C., Alberte, R.S.: Photoadaptation in Marine Phytoplankton: Response of the Photosynthetic Unit **62**, 91 (1981)
- Pesando, D., see Amade, Ph., et al. **70**, 223 (1982)
- Peterson, C.H.: Clam Predation by Whelks (*Busycon* spp.): Experimental Tests of the Importance of Prey Size, Prey Density, and Seagrass Cover **66**, 159 (1982)
- Peterson, P.J., see Klumpp, D.W. **62**, 297 (1981)
- Pfau, J., see Nultsch, W., et al. **62**, 111 (1981)

- Phillips, D.J.H., see Cotter, A.J.R., et al. **68**, 135 (1982)
- Phillips, D.W.: Life-History Features of the Marine Intertidal Limpet *Notoacmea scutum* (Gastropoda) in Central California **64**, 95 (1981)
- Pierce, S.K., see Otto, J. **61**, 185 (1981)
- Pierce, S.K., see Otto, J. **61**, 193 (1981)
- Poleck, T.P., Denys, C.J.: Effect of Temperature on the Molting, Growth and Maturation of the Antarctic Krill *Euphausia superba* (Crustacea: Euphausiacea) Under Laboratory Conditions **70**, 255 (1982)
- Polunin, N.V.C., see Robertson, D.R. **62**, 185 (1981)
- Pomeroi, L.R., see Hodson, R.E., et al. **64**, 43 (1981)
- Porter, J.W., see Dallmeyer, D.G., et al. **68**, 229 (1982)
- Poulsen, E., Riisgård, H.U., Møhlenberg, F.: Accumulation of Cadmium and Bioenergetics in the Mussel *Mytilus edulis* **68**, 25 (1982)
- Prézelin, B.B.: Effects of Light Intensity on Aging of the Dinoflagellate *Gonyaulax polyedra* **69**, 129 (1982)
- Prézelin, B.B., see Harding, L.W., Jr., et al. **61**, 95 (1981)
- Prézelin, B.B., see Harding, L.W., Jr., et al. **67**, 167 (1982)
- Prézelin, B.B., see Harding, L.W., Jr., et al. **67**, 179 (1982)
- Price, M.H. see Childress, J.J., et al. **61**, 27 (1980)
- Propp, M.V., Garber, M.R., Ryabusko, V.I.: Unstable Processes in the Metabolic Rate Measurements in Flow-Through Systems **67**, 47 (1982)
- Purcell, J.E.: Selective Predation and Caloric Consumption by the Siphonophore *Rosacea cymbiformis* in Nature **63**, 283 (1981)
- Purcell, J.E.: Dietary Composition and Diel Feeding Patterns of Epipelagic Siphonophores **65**, 83 (1981)
- Purschke, G.: Tolerance to Freezing and Supercooling of Intertidal Turbellaria and Polychaeta from a Sandy Tidal Beach of the Island of Sylt (North Sea) **63**, 257 (1981)

## Q

- Quarmby, L.M., see Bienfang, P.K., et al. **67**, 295 (1982)
- Quast, W.D., see Howe, N.R., et al. **68**, 37 (1982)

## R

- Rabin, K.S., see Farrington, J.W., et al. **66**, 15 (1982)
- Ramus, J., see Rosenberg, G. **66**, 251 (1982)
- Randall, J.E., Aida, K., Oshima, Y., Hori, K., Hashimoto, Y.: Occurrence of a Cri-

- notoxin and Hemagglutinin in the Skin Mucus of the Moray Eel *Lycodonis nudivomer* **62**, 179 (1981)
- Randløv, A., see Riisgård, H.U. **61**, 227 (1981)
- Redalje, D.G., Laws, E.A.: A New Method for Estimating Phytoplankton Growth Rates and Carbon Biomass **62**, 73 (1981)
- Reeve, M.R., see Sullivan, B.K. **68**, 61 (1982)
- Reidenaue, J.A., Thistle, D.: Response of a Soft-Bottom Harpacticoid Community to Stingray (*Dasyatis sabina*) Disturbance **65**, 261 (1981)
- Reiswig, H.M., see Crocker, L.A. **65**, 231 (1981)
- Reiswig, H.M., see Lewis, J.B., et al. **70**, 173 (1982)
- Rhodes, E.W., see Tettelbach, S.T. **63**, 249 (1981)
- Richards, J., see Wu, R.S.S. **64**, 191 (1981)
- Richards, J.E., Beamish, F.W.H.: Initiation of Feeding and Salinity Tolerance in the Pacific Lamprey *Lampetra tridentata* **63**, 73 (1981)
- Richardson, K., see Öquist, G., et al. **68**, 71 (1982)
- Richardson, K., see Samuelsson, G. **70**, 21 (1982)
- Rifkin, J.F.: Use of Electrical Stimulation for Discharging Cnidom Components of a Species of *Cerianthus* (Anthozoa: Cnidaria) **69**, 31 (1982)
- Riisgård, H.U., see Köhler, K. **66**, 53 (1982)
- Riisgård, H.U., see Poulsen, E., et al. **68**, 25 (1982)
- Riisgård, H.U., Randløv, A.: Energy Budgets, Growth and Filtration Rates in *Mytilus edulis* at Different Algal Concentrations **61**, 227 (1981)
- Riis-Vestergaard, J.: Water and Salt Balance of Halibut Eggs and Larvae (*Hippoglossus hippoglossus*) **70**, 135 (1982)
- Riley, R.T., Mix, M.C., Schaffer, R.L., Bunting, D.L.: Uptake and Accumulation of Naphthalene by the Oyster *Ostrea edulis*, in a Flow-Through System **61**, 267 (1981)
- Riley, R.T., Shirazi, M.A., Swartz, R.C.: Transport of Naphthalene in the Oyster *Ostrea edulis* **63**, 325 (1981)
- Ritz, D.A., Hosie, G.W.: Production of the Euphausiid *Nyctiphanes australis* in Storm Bay, South-Eastern Tasmania **68**, 103 (1982)
- Rivière, D., see Guérin, J.-P., et al. **68**, 217 (1982)
- Rivkin, R.B., see Seliger, H.H., et al. **61**, 119 (1981)
- Rivkin, R.B., Seliger, H.H., Swift, E., Biggley, W.H.: Light-Shade Adaptation by the Oceanic Dinoflagellates *Pyrocystis noctiluca* and *P. fusiformis* **68**, 181 (1982)
- Rivkin, R.B., Swift, E.: Characterization of Alkaline Phosphatase and Organic Phosphorus Utilization in the Oceanic Dinoflagellate *Pyrocystis noctiluca* **61**, 1 (1980)
- Roberts, D.: see DeMartini, E.E. **70**, 129 (1982)
- Robertson, D.A., see Smith, P.J. **62**, 227 (1981)
- Robertson, D.R.: The Social and Mating Systems of Two Labrid Fishes, *Halichoeres maculipinna* and *H. garnoti*, off the Caribbean Coast of Panama **64**, 327 (1981)
- Robertson, D.R., see Bailey, T.G. **69**, 45 (1982)
- Robertson, D.R., Polunin, N.V.C.: Coexistence: Symbiotic Sharing of Feeding Territories and Algal Food by Some Coral Reef Fishes from the Western Indian Ocean **62**, 185 (1981)
- Robison, B.H., Bailey, T.G.: Sinking Rates and Dissolution of Midwater Fish Fecal Matter **65**, 135 (1981)
- Roels, O.A., see Anderson, S.M. **62**, 257 (1981)
- Roesijadi, G.: Uptake and Incorporation of Mercury into Mercury-Binding Proteins of Gills of *Mytilus edulis* as a Function of Time **66**, 151 (1982)
- Roman, M.R., Rublee, P.A.: A Method to Determine *in situ* Zooplankton Grazing Rates on Natural Particle Assemblages **65**, 303 (1981)
- Romano, J.-C., Daumas, R.: Adenosine Nucleotide "Energy Charge" Ratios as an Ecophysiological Index for Microplankton Communities **62**, 281 (1981)
- Romeo, J.T., see Bird, K.T., et al. **64**, 219 (1981)
- Rönnow, P.H., see Gunnarsson, L.Å.H. **69**, 121 (1982)
- Rosenberg, G., Paerl, H.W.: Nitrogen Fixation by Blue-Green Algae Associated with the Siphonous Green Seaweed *Codium decorticatum*: Effects on Ammonium Uptake **61**, 151 (1981)
- Rosenberg, G., Ramus, J.: Ecological Growth Strategies in the Seaweeds *Gracilaria foliifera* (Rhodophyceae) and *Ulva* sp. (Chlorophyceae): Soluble Nitrogen and Reserve Carbohydrates **66**, 251 (1982)
- Ross, R.M.: Energetics of *Euphausia pacifica*. I. Effects of Body Carbon and Nitrogen on Measured and Predicted Production **68**, 1 (1982)
- Ross, R.M.: Energetics of *Euphausia pacifica*. II. Complete Carbon and Nitrogen Budgets at 8° and 12°C Throughout the Life Span **68**, 15 (1982)
- Rowe, F., see Tranter, D.J., et al. **61**, 317 (1981)
- Rublee, P.A., see Roman, M.R. **65**, 303 (1981)
- Rüffer, U., see Nultsch, W., et al. **62**, 111 (1981)
- Ryabusko, V.I., see Propp, M.V., et al. **67**, 47 (1982)
- S**
- Sabourin, T.D., Stickley, W.B.: Effects of Salinity on Respiration and Nitrogen Excretion in Two Species of Echinoderms **65**, 91 (1981)
- Safriel, U.N., see Ayal, Y. **70**, 305 (1982)
- Saino, T., Hattori, A.: Aerobic Nitrogen Fixation by the Marine Non-Heterocystous Cyanobacterium *Trichodesmium (Oscillatoria)* spp.: Its Protective Mechanism Against Oxygen **70**, 251 (1982)
- Saks, N.M.: Temperature, Salinity and Ultraviolet Irradiation Effects on the Growth of Strains of *Nitzschia ovalis* **68**, 175 (1982)
- Saks, N.M.: Primary Production and Release of Assimilated Carbon by *Chlamydomonas provansolii* in Culture **70**, 205 (1982)
- Salamonski, J.H., Johnston, I.A.: Capillary Supply and Mitochondrial Volume Density in the Axial Muscles of the Mesopelagic Teleost *Argyropspectus hemigymnus* **69**, 1 (1982)
- Sale, P.F., see Williams, D.McB. **65**, 245 (1981)
- Salch, S., see Lewis, J.B., et al. **70**, 173 (1982)
- Samain, J.F., Moal, J., Alayse-Danet, A.M., Daniel, J.Y., Le Coz, J.R.: Modèle de détection rapide des effets sublétaux des polluants. II. Un exemple *in situ*: anomalie métabolique du copépode hyponeustonique *Anomalocera patersoni* en coïncidence avec une marée noire. [Model for Rapid Detection of Sublethal Effects of Pollutants. II. An *in situ* Example: Anomalous Metabolisms of the Hyponeustonic Copepod *Anomalocera patersoni* Coinciding with an Oil Spill] **64**, 35 (1981)
- Samet, C., see Olla, B.L., et al. **62**, 239 (1981)
- Sampera, C., see Crespo, S., et al. **65**, 117 (1981)
- Samuelsson, G., see Öquist, G., et al. **68**, 71 (1982)
- Samuelsson, G., Richardson, K.: Photo-inhibition at Low Quantum Flux Densities in a Marine Dinoflagellate (*Amphidinium carterae*) **70**, 21 (1982)
- Sander, F.: A Preliminary Assessment of the Main Causative Mechanisms of the "Island Mass" Effect of Barbados **64**, 199 (1981)
- Sargent, J.R., see Falk-Petersen, I.-B. **69**, 291 (1982)
- Sargent, J.R., Falk-Petersen, S.: Ecological Investigations on the Zooplankton Community in Balsfjorden, Northern Norway: Lipids and Fatty Acids in *Meganycitaphanes norvegica*, *Thysanoessa raschi* and *T. inermis* During Mid-Winter **62**, 131 (1981)
- Sargent, J.R., see Falk-Petersen, S., et al. **68**, 97 (1982)
- Sargent, J.R., see Henderson, R.J., et al. **63**, 235 (1981)
- Sargent, J.R., see Henderson, R.J., et al. **70**, 7 (1982)
- Saward, D., see Davies, I.M., et al. **64**, 291 (1981)
- Scalia, M., see Castagna, A., et al. **64**, 285 (1981)
- Schaffer, R.L., see Riley, R.T., et al. **61**, 267 (1981)
- Scheibel, W., see Alheit, J. **70**, 141 (1982)

- Scheibling, R.E., Lawrence, J.M.: Differences in Reproductive Strategies of Morphs of the Genus *Echinaster* (Echinodermata: Asteroidea) from the Eastern Gulf of Mexico **70**, 51 (1982)
- Schneider, D., Hunt, G.L.: Carbon Flux to Seabirds in Waters with Different Mixing Regimes in the Southeastern Bering Sea **67**, 337 (1982)
- Schneider, R.C., Smith, S.V.: Skeletal Sr Content and Density in *Porites* spp. in Relation to Environmental Factors **66**, 121 (1982)
- Scholl, A., see Bulnheim, H.-P. **64**, 105 (1981)
- Schramm, W., see King, R.J. **70**, 197 (1982)
- Schulz, R., see Graf, G., et al. **67**, 201 (1982)
- Schulz-Baldes, M., Cheng, L.: Flux of Radioactive Cadmium Through the Sea-Skater *Halobates* (Heteroptera: Gerridae) **62**, 173 (1981)
- Seapy, R.R., see Young, R.E., et al. **69**, 299 (1982)
- Seliger, H.H., McKinley, K.R., Biggley, W.H., Rivkin, R.B., Aspden, K.R.H.: Phytoplankton Patchiness and Frontal Regions **61**, 119 (1981)
- Seliger, H.H., see Rivkin, R.B., et al. **68**, 181 (1982)
- Sellner, K.G.: Primary Productivity and the Flux of Dissolved Organic Matter in Several Marine Environments **65**, 101 (1981)
- Sepers, A.B.J., Cahet, G., Goossens, H.: Comparison Between the Carbon-14 and Oxygen Consumption Method for the Determination of the Activity of Heterotrophic Bacterial Populations **66**, 237 (1982)
- Sheppard, C.R.C.: Illumination and the Coral Community Beneath Tabular *Acropora* Species **64**, 53 (1981)
- Shick, J.M., Taylor, W.F., Lamb, A.N.: Reproduction and Genetic Variation in the Deposit-Feeding Sea Star *Ctenodiscus crispatus* **63**, 51 (1981)
- Shirazi, M.A., see Riley, R.T., et al. **63**, 325 (1981)
- Shirley, T.C., Stickle, W.B.: Responses of *Leptasterias hexactis* (Echinodermata: Asteroidea) to Low Salinity. I. Survival, Activity, Feeding, Growth and Absorption Efficiency **69**, 147 (1982)
- Shirley, T.C., Stickle, W.B.: Responses of *Leptasterias hexactis* (Echinodermata: Asteroidea) to Low Salinity. II. Nitrogen Metabolism, Respiration and Energy Budget **69**, 155 (1982)
- Sibert, J.R.: Intertidal Hyperbenthic Populations in the Nanaimo Estuary **64**, 259 (1981)
- Sibuet, M., Lawrence, J.M.: Organic Content and Biomass of Abyssal Holothuroids (Echinodermata) from the Bay of Biscay **65**, 143 (1981)
- Siebers, D., Leweck, K., Markus, H., Winkler, A.: Sodium Regulation in the Shore Crab *Carcinus maenas* as Related to Ambient Salinity **69**, 37 (1982)
- Sieburth, J.McN., see Burney, C.M., et al. **63**, 175 (1981)
- Sieburth, J.McN. see Burney, C.M., et al. **65**, 289 (1981)
- Sieburth, J.McN., see Burney, C.M., et al. **67**, 311 (1982)
- Sieburth, J.McN., see Johnson, K.M., et al. **65**, 49 (1981)
- Silver, M.W., see Alldredge, A.L. **66**, 83 (1982)
- Silver, M.W., Bruland, K.W.: Differential Feeding and Fecal Pellet Composition of Salps and Pteropods, and the Possible Origin of the Deep-Water Flora and Olive-Green "Cells" **62**, 263 (1981)
- Silver, M.W., see Bruland, K.W. **63**, 295 (1981)
- Sinatra, F., see Castagna, A., et al. **64**, 285 (1981)
- Skjoldal, H.R.: ATP Concentration and Adenylate Energy Charge of Tropical Zooplankton from Waters Inside the Great Barrier Reef **62**, 119 (1981)
- Skjoldal, H.R., Barkati, S.: ATP Content and Adenylate Energy Charge of the Mussel *Mytilus edulis* During the Annual Reproductive Cycle in Lindåspollene, Western Norway **70**, 1 (1982)
- Sloan, N.A.: Size and Structure of Echinoderm Populations Associated with Different Coexisting Coral Species at Aldabra Atoll, Seychelles **66**, 67 (1982)
- Sloane, L., see Gaudy, R. **65**, 297 (1981)
- Smale, M.J., Buchan, P.R.: Biology of *Octopus vulgaris* Off the East Coast of South Africa, **65**, 1 (1981)
- Smetacek, V.: The Annual Cycle of Protozooplankton in the Kiel Bight **63**, 1 (1981)
- Smith, A.L.: Comparison of Macrofaunal Invertebrates in Sand Dollar (*Dendroaster excentricus*) Beds and in Adjacent Areas Free of Sand Dollars **65**, 191 (1981)
- Smith, D.F., Meyer, D.L., Horner, S.M.J.: Amino Acid Uptake by the Comatulid Crinoid *Cenometra bella* (Echinodermata) Following Evisceration **61**, 207 (1981)
- Smith, D.F., see Tranter, D.J., et al. **61**, 317 (1981)
- Smith, G.J., see Dallmeyer, D.G., et al. **68**, 229 (1982)
- Smith, K.L., Jr., Baldwin, R.J.: Scavenging Deep-Sea Amphipods: Effects of Food Odor on Oxygen Consumption and a Proposed Metabolic Strategy **68**, 287 (1982)
- Smith, K.L., Jr., Laver, M.B.: Respiration of the Bathypelagic Fish *Cyclothone acclinidens* **61**, 261 (1981)
- Smith, P.J., Fujio, Y.: Genetic Variation in Marine Teleosts: High Variability in Habitat Specialists and Low Variability in Habitat Generalists **69**, 7 (1982)
- Smith, P.J., Robertson, D.A.: Genetic Evidence for Two Species of Sprat (*Sprattus*) in New Zealand Waters **62**, 227 (1981)
- Smith, R.C., Baker, K.S.: Oceanic Chlorophyll Concentrations as Determined by Satellite (Nimbus-7 Coastal Zone Color Scanner) **66**, 269 (1982)
- Smith, R.C., Eppley, R.W., Baker, K.S.: Correlation of Primary Production as Measured Aboard Ship in Southern California Coastal Waters and as Estimated from Satellite Chlorophyll Images **66**, 281 (1982)
- Smith, S.V., see Schneider, R.C. **66**, 121 (1982)
- Somero, G.N., see Walsh, P.J. **62**, 25 (1981)
- Soriano, E., see Crespo, S., et al. **65**, 117 (1981)
- Spero, H.J., see Bé, A.W.H., et al. **70**, 73 (1982)
- Spies, R.B., Felton, J.S., Dillard, L.: Hepatic Mixed-Function Oxidases in California Flatfishes are Increased in Contaminated Environments and by Oil and PCB Ingestion **70**, 117 (1982)
- Stanczyk, S.E., see Alon, N.C. **68**, 265 (1982)
- Steneck, R.S., Watling, L.: Feeding Capabilities and Limitation of Herbivorous Molluscs: A Functional Group Approach **68**, 299 (1982)
- Stephenson, M., see Flegal, A.R., et al. **65**, 45 (1981)
- Stickle, W.B., see Sabourin, T.D. **65**, 91 (1981)
- Stickle, W.B., see Shirley, T.C. **69**, 147 (1982)
- Stickle, W.B., see Shirley, T.C. **69**, 155 (1982)
- Stillwell, E.F., Corum, K.E.: Effects of Cadmium and Low Magnesium on Cell Division and Calcification in the Marine Cocolithophorid *Cricosphaera (Hymenomonas) carterae* **66**, 227 (1982)
- Strickler, J.R., see Paffenhöfer, G.-A., et al. **67**, 193 (1982)
- Studholme, A.L., see Olla, B.L., et al. **62**, 239 (1981)
- Sullivan, B.K., Reeve, M.R.: Comparison of Estimates of the Predatory Impact of Ctenophores by Two Independent Techniques **68**, 61 (1982)
- Sullivan, C.W., see Krempin, D.W., et al. **64**, 23 (1981)
- Sullivan, C.W., see McGrath, S.M. **62**, 217 (1981)
- Sunda, W.G., see Zamuda, C.D. **66**, 77 (1982)
- Surey-Gent, S.C.: Distribution of *Anoplostoma viviparum* (Nematoda) in Southampton Water Sediments **62**, 157 (1981)
- Swann, C.P., see Carriker, M.R., et al. **69**, 235 (1982)
- Swartz, R.C., see Riley, R.T., et al. **63**, 325 (1981)
- Sweeney, B.M., see Harding, L.W., Jr., et al. **61**, 95 (1981)
- Sweeney, B.M., see Harding, L.W., Jr., et al. **67**, 167 (1982)
- Sweeney, B.M., see Harding, L.W., Jr., et al. **67**, 179 (1982)

- Swift, E., see Rivkin, R.B. 61, 1 (1980)  
 Swift, E., see Rivkin, R.B., et al. 68, 181 (1982)  
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## T

- Taga, N., see Amano, M., et al. 68, 31 (1982)  
 Takahashi, M., Fukazawa, N.: A Mechanism of "Red-Tide" Formation. II. Effect of Selective Nutrient Stimulation on the Growth of Different Phytoplankton Species in Natural Water 70, 267 (1982)  
 Talbot, M.C., see Perry, M.J., et al. 62, 91 (1981)  
 Tande, K.S., Hopkins, C.C.E.: Ecological Investigations of the Zooplankton Community of Balsfjorden, Northern Norway: The Genital System in *Calanus finmarchicus* and the Role of Gonad Development in Overwintering Strategy 63, 159 (1981)  
 Tararam, A.S., see Wakabara, Y., et al. 68, 67 (1982)  
 Taylor, F.J.R., Waters, R.E.: Spring Phytoplankton in the Subarctic North Pacific Ocean 67, 323 (1982)  
 Taylor, S.M., see Childress, J.J., et al. 61, 27 (1980)  
 Taylor, W.F., see Shick, J.M., et al. 63, 51 (1981)  
 Termaat, R.M., see Bak, R.P.M., et al. 69, 215 (1982)  
 Terry, K.L.: Nitrate Uptake and Assimilation in *Thalassiosira weissflogii* and *Phaeodactylum tricornutum*: Interactions with Photosynthesis and with the Uptake of Other Ions 69, 21 (1982)  
 Tettelbach, S.T., Rhodes, E.W.: Combined Effects of Temperature and Salinity on Embryos and Larvae of the Northern Bay Scallop *Argopecten irradians irradians* 63, 249 (1981)  
 Theede, H., see Graf, G., et al. 67, 201 (1982)  
 Thiersch, J.B., see Mann, T., et al. 63, 121 (1981)  
 Thiriot-Quievreux, C., Ayraud, N.: Les caryotypes de quelques espèces de bivalves et de gastéropodes marins. [The Karyotypes of Some Marine Bivalve and Gastropod Species] 70, 165 (1982)  
 Thistle, D., see Reidenauer, J.A. 65, 261 (1981)  
 Thomas, L., see Palmer, A.R., et al. 67, 51 (1982)  
 Thomson, J.D.: Metal Concentration Changes in Growing Pacific Oysters, *Crassostrea gigas*, Cultivated in Tasmania, Australia 67, 135 (1982)  
 Thomson, M., see Al-Hassan, J.M., et al. 70, 27 (1982)  
 Thorson, S.S., see Dortch, Q., et al. 70, 13 (1982)  
 Thorne-Miller, B., see Harlin, M.M. 65, 221 (1981)  
 Thresher, R.E.: Courtship and Spawning in the Emperor Angelfish *Pomacanthus imperator*, with Comments on Reproduction by Other Pomacanthid Fishes 70, 149 (1982)  
 Topping, G., see Davies, I.M., et al. 64, 291 (1981)  
 Tranter, D.J., Bulleid, N.C., Campbell, R., Higgins, H.W., Rowe, F., Tranter, H.A., Smith, D.F.: Nocturnal Movements of Phototactic Zooplankton in Shallow Waters 61, 317 (1981)  
 Tranter, H.A., see Tranter, D.J., et al. 61, 317 (1981)  
 Tribble, G.W.: Reef-Based Herbivores and the Distribution of Two Seagrasses (*Syringodium filiforme* and *Thalassia testudinum*) in the San Blas Islands (Western Caribbean) 65, 277 (1981)  
 Tsuji, T., Yanagita, T.: Improved Fluorescent Microscopy for Measuring the Standing Stock of Phytoplankton Including Fragile Components 64, 207 (1981)  
 Tursch, A., see Tursch, B. 68, 321 (1982)  
 Tursch, B., Tursch, A.: The Soft Coral Community on a Sheltered Reef Quadrat at Laing Island (Papua New Guinea) 68, 321 (1982)  
 Tyler, P.A., see Gage, J.D. 64, 153 (1981)  
 Tyler, P.A., see Gage, J.D. 64, 163 (1981)  
 Tyler, P.A., see Maung Myint, U 67, 209 (1982)  
 Tyler, P.A., see Pain, S.L., et al. 70, 41 (1982)

## V

- Vaidya, S., see Weis, J.S., et al. 65, 283 (1981)  
 Vajda, B., see Falk-Petersen, S., et al. 68, 97 (1982)  
 Valdés, M., Albright, L.J.: Survival and Heterotrophic Activities of Fraser River and Strait of Georgia Bacterioplankton Within the Fraser River Plume 64, 231 (1981)  
 VanBlaricom, G.R., see Davis, N., et al. 70, 295 (1982)  
 Van der Veer, J.: Simple and Reliable Methods for the Fixation, Mounting and Staining of Small and Delicate Marine Plankton for Light Microscopic Identification 66, 9 (1982)  
 Van Dyke, H., see Karanas, J.J., et al. 65, 125 (1981)  
 Vannini, M.: Notes on Some Factors Affecting Aggressive Behaviour in *Carcinus mediterraneus* 61, 235 (1981)  
 Vannini, M., Chelazzi, G.: Orientation of *Coenobita rugosus* (Crustacea: Anomura): A Field Study on Aldabra 64, 135 (1981)  
 Venrick, E.L., see Hayward, T.L. 69, 247 (1982)

## W

- Wakabara, Y., Kawakami de Rezende, E., Tararam, A.S.: Amphipods As One of the Main Food Components of Three Pleuronectiformes from the Continental Shelf of South Brazil and North Uruguay 68, 67 (1982)  
 Walsh, P.J., Somero, G.N.: Temperature Adaptation in Sea Anemones: Physiological and Biochemical Variability in Geographically Separate Populations of *Metridium senile* 62, 25 (1981)  
 Waters, R.E., see Taylor, F.J.R. 67, 323 (1982)  
 Watling, L., see Steneck, R.S. 68, 299 (1982)  
 Webb, J., Chrystal, P.: Protein Binding of Iron in Blood Plasma of the Ascidian *Herdmania momus* 63, 107 (1981)  
 Weis, J.S., Weis, P., Heber, M., Vaidya, S.: Methylmercury Tolerance of Killifish (*Fundulus heteroclitus*) Embryos from a Polluted vs Non-Polluted Environment 65, 283 (1981)  
 Weis, P., see Weis, J.S., et al. 65, 283 (1981)  
 Weisberg, S.B., Lotrich, V.A.: The Importance of an Infrequently Flooded Intertidal Marsh Surface as an Energy Source for the Mummichog *Fundulus heteroclitus*: An Experimental Approach 66, 307 (1982)  
 Weisberg, S.B., Whalen, R., Lotrich, V.A.: Tidal and Diurnal Influence on Food Consumption of a Salt Marsh Killifish *Fundulus heteroclitus* 61, 243 (1981)  
 Westinga, E., Hoetjes, P.C.: The Intrasponge Fauna of *Spheciospongia vesparia* (Porifera, Demospongiae) at Curaçao and Bonaire 62, 139 (1981)  
 Whalen, R., see Weisberg, S.B., et al. 61, 243 (1981)  
 Wheeler, P.A., North, W.J.: Nitrogen Supply, Tissue Composition and Frond Growth Rates for *Macrocystis pyrifera* off the Coast of Southern California 64, 59 (1981)  
 White, A.W.: Sensitivity of Marine Fishes to Toxins from the Red-Tide Dinoflagellate *Gonyaulax excavata* and Implications for Fish Kills 65, 255 (1981)  
 Whitney, N.J., see Miller, J.D. 65, 61 (1981)  
 Widdows, J., Bakke, T., Bayne, B.L., Donkin, P., Livingstone, D.R., Lowe, D.M., Moore, M.N., Evans, S.V., Moore, S.L.: Responses of *Mytilus edulis* on Exposure to the Water-Accommodated Fraction of North Sea Oil 67, 15 (1982)  
 Willason, S.W.: Factors Influencing the Distribution and Coexistence of *Pachygrapsus crassipes* and *Hemigrapsus oregonensis* (Decapoda: Grapsidae) in a California Salt Marsh 64, 125 (1981)  
 Williams, B.E., see Bernstein, B.B., et al. 63, 39 (1981)  
 Williams, D.McB., Sale, P.F.: Spatial and Temporal Patterns of Recruitment of



- Juvenile Coral Reef Fishes to Coral Habitats Within "One Tree Lagoon", Great Barrier Reef **65**, 245 (1981)
- Williams, J.A.: Environmental Influence on the Locomotor Activity Rhythm of the Sand-Shore Amphipod *Talorchestia deshayesi* **69**, 65 (1982)
- Williams, L.G.: Mathematical Analysis of the Effects of Particle Retention Efficiency on Determination of Filtration Rate **66**, 171 (1982)
- Williams, M.J., see Hill, B.J., et al. **69**, 117 (1982)
- Williams, R., see Collins, N.R. **64**, 273 (1981)
- Williams, R., Lindley, J.A.: Variability in Abundance, Vertical Distribution and Ontogenetic Migrations of *Thysanoessa longicaudata* (Crustacea: Euphausiacea) in the North-Eastern Atlantic Ocean **69**, 321 (1982)
- Willis, J.M., Percy, W.G.: Vertical Distribution and Migration of Fishes of the Lower Mesopelagic Zone off Oregon **70**, 87 (1982)
- Winkler, A., see Siebers, D., et al. **69**, 37 (1982)
- Winn, C.D., see Karl, D.M., et al. **64**, 1 (1981)
- Winn, C.D., see Karl, D.M., et al. **64**, 13 (1981)
- Winter, J.E., see Navarro, J.M. **67**, 255 (1982)
- Wirick, C.D., see Falkowski, P.G. **65**, 69 (1981)
- Wong, D.C.L., see Karl, D.M., et al. **64**, 13 (1981)
- Woo, N.Y.S., Murat, J.C.: Studies on the Biology of the Red Sea Bream *Chrysophrys major*. III. Metabolic Response to Starvation in Different Salinities **61**, 255 (1981)
- Woollacott, R.M.: Association of Bacteria with Bryozoan Larvae **65**, 155 (1981)
- Worrest, R.C., see Karanas, J.J., et al. **65**, 125 (1981)
- Wright, D.A., see Lobel, P.B. **66**, 145 (1982)
- Wright, D.A., see Lobel, P.B. **66**, 231 (1982)
- Wright, N., see Olive, P.J.W., et al. **63**, 189 (1981)
- Wu, R.S.S., Richards, J.: Variations in Benthic Community Structure in a Sub-Tropical Estuary **64**, 191 (1981)
- Y**
- Yanagita, T., see Isuji, T. **64**, 207 (1981)
- Young, C.M., Chia, F.-S.: Factors Controlling Spatial Distribution of the Sea Cucumber *Psolus chitonoides*: Settling and Post-Settling Behavior **69**, 195 (1982)
- Young, R.E., Seapy, R.R., Mangold, K.M., Hochberg, F.G., Jr.: Luminescent Flashing in the Midwater Squids *Pterygioteuthis microlampas* and *P. giardi* **69**, 299 (1982)
- Youngbluth, M.J.: Utilization of a Fecal Mass as Food by the Pelagic Mysids Larva of the Penaeid Shrimp *Solenocera atlantidis* **66**, 47 (1982)
- Z**
- Zamuda, C.D., Sunda, W.G.: Bioavailability of Dissolved Copper to the American Oyster *Crassostrea virginica*. I. Importance of Chemical Speciation **66**, 77 (1982)
- Zanetti, L., see Cariello, L. **62**, 151 (1981)
- Zsolnay, A., see Iturriaga, R. **62**, 125 (1981)
- Żukowska-Arendarczyk, M.: Effect of Hypophyseal Gonadotropins (FSH and LH) on the Ovaries of the Sand Shrimp *Crangon crangon* (Crustacea: Decapoda) **63**, 241 (1981)



